AMENDMENTS TO THE CLAIMS

1	1. (Currently Amended) A document-generation process performed using a
2	computer system, the process comprising:
3	parsing a raw document to create an internal representation of the document;
4	reading a first-level transform from a transform database;
5	applying the first-level transform to the internal representation so as to create a
6	first-level document;
7	writing the first-level document to memory;
8	receiving a first request for a second-level document that depends from the first-
9	level document;
10	in response to the first request, reading a second-level transform from the
11	transform database;
12	in response to the first request, applying the second-level transform to the first-
13	level document so as to create a second-level document; and
14	writing the second-level document to memory.
1	2. (Previously Presented) A document-generation process as defined
2	in Claim 1, further comprising:
3	revising the raw document;
4	applying the first-level transform to the revised raw document so as to create a
5	revised first-level document;
6	writing the revised first-level document to memory; and
7	indicating that a then-existing second-level document is invalid.
1	3. (Original) A document-generation process as defined in Claim 2,
2	further comprising:
3	receiving a second request for the then-existing second-level document;
4	determining that the then-existing second-level document has been indicated
5	invalid:

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6	applying the second-level transform to the revised first-level document so as to				
7	create a revised second-level document; and				
8	writ	ing the revised so	econd-level d	ocument to memory.	
1	4.	(Previously P	resented)	A document-generation process as defined	
2	in Claim 1,	further comprisi	ng:		
3	rece	iving a request fo	or a revised fi	rst-level transform;	
4	revis	sing the then-exi	sting first-lev	el transform;	
5	appl	ying the revised	first-level tra	nsform to the raw document so as to create a	
6		revised first-l	evel docume	nt;	
7	writ	ing the revised fi	rst-level docu	ument to memory; and	
8	indic	cating that the th	en-existing se	econd-level document is invalid.	
1	5.	(Previously P	resented)	A document-generation process as defined	
2	in Claim 4,	further comprisi	ng:		
3	rece	receiving a second request for the then-existing second-level document;			
4	dete	rmining that the	then-existing	second-level document has been indicated	
5		invalid;			
6	appl	ying the second-	level transfor	m to the revised first-level document so as to	
7		create a revis	ed second-lev	vel document; and	
8	writi	ing the revised so	econd-level d	ocument to memory.	
1	6.	(Original)	A documen	t-generation process as defined in Claim 1,	
2	wherein a re	espective GID is	assigned to e	ach of the first-level document and the second-	
3	level docum	ient.			
1	7.	(Original)	A documen	t-generation process as defined in Claim 1,	
2	wherein the	first-level docur	ment and the	second-level document are timestamped and	
3	wherein a de	ocument is delet	ed when a tin	nestamp indicates that the document is stale.	
1	8.	(Currently A	mended) A m	nethod of generating customized versions of a	

document using a computer system, the method comprising:

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3	storing the document in raw form;		
4	parsing the document to create an internal representation of the document;		
5	receiving a request to generate a second-level document; and		
6	decomposing the document, wherein decomposing the document comprises		
7	applying a first-level transform to the internal representation of the		
8	document so as to create a first-level document and, in response to the		
9	request to generate the second-level document, applying a second-level		
10	transform to the first-level document so as to create [[a]] the second-level		
11	document.		
1	9. (Previously Presented) A method as defined in Claim 8, wherein applying		
2	a first-level transform and applying a second-level transform comprises applying		
3	sequential transforms to the document.		
1	10. (Canceled)		
1	11. (Canceled)		
1	12. (Previously Presented) A method as defined in Claim 8, wherein		
2	decomposing the document comprises applying a third-level transform to the second		
3	level document so as to create a third-level document.		
1	13. (Original) A method as defined in Claim 8, wherein the document is		
2	stored in raw XML form.		
1	14. (Previously Presented) A method as defined in Claim 13, wherein		
2	applying a first-level transform and applying a second-level transform comprises		
3	applying sequential transforms to the document.		
1	15. (Previously Presented) A method as defined in Claim 14, wherein		
2	applying a first-level transform of the document stored in raw XML form comprises		

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- 3 applying a subscription-level transform to the internal representation of the document so
- 4 as to create a subscription-level document.
- 1 16. (Previously Presented) A method as defined in Claim 15, wherein
- 2 the subscription-level transform enables content filtering of the internal representation in
- 3 accordance with a user's request.
- 1 17. (Previously Presented) A method as defined in Claim 16, wherein
- 2 applying a second-level transform comprises applying an organization-level transform to
- 3 the subscription-level document so as to create an organization-level document.
- 1 18. (Original) A method as defined in Claim 17, wherein the
- 2 organization-level transform enables subscription-specific content filtering of a
- 3 subscription-level document.
- 1 19. (Previously Presented) A method as defined in Claim 18, wherein
- 2 decomposing the document comprises applying a presentation-level transform to the
- 3 organization-level document so as to create a presentation-level document.
- 1 20. (Original) A method as defined in Claim 19, wherein the presentation-
- 2 level transform generates an organization-specific document for end user presentation.
- 1 21. (Original) A method as defined in Claim 20, wherein the presentation-
- 2 level transform generates an HTML document or a text file for end user presentation.
- 3 22. (Original) A method as defined in Claim 21, wherein the subscription-
- 4 level transform is mandatory and the organization-level and presentation-level transforms
- 5 are optional.
- 1 23. (Original) A method as defined in Claim 8, wherein a transform is
- 2 applied to a document only as a result of an initial demand for a transformed document.

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1	24.	(Original)	A method as d	efined in Claim 23, wherein the demand for a
2	transformed	document is a	client request.	
1	25.	(Original)	A method as d	efined in Claim 24, wherein the demand for a
2	transformed	document is a	document publica	ation process.
	•	(0.1.1.1)		
1	26.	(Original)		efined in Claim 23, wherein transformed
2	documents a	re written to a	eache.	
1	27.	(Original)	A method as d	efined in Claim 26, wherein demands for a
2	transformed	document, subs	sequent to the ini	tial demand, are referred to the cache.
			-	
1	28.	(Currently A	mended) A com	puter readable medium having data stored
2	therein to cau	use a data proc	essing system to	generate a data document according to a
3	process comprising:			
4	storing a raw form of the document;			
5	parsing the document to create an internal representation of the document; and			
6	receiv	ving a request f	rom a client com	puter system coupled to the data processing
7		system to ge	nerate a second-l	evel document into a particular form;
8	decor	mposing the do	cument into [[a]]	the form requested by a recipient of the
9		document the	e client system, v	wherein decomposing the document
10		comprises ap	plying a first-lev	rel transform to the internal representation of
11		the documen	t so as to create a	a first-level document and, in response to the
12		request to ge	nerate the second	d-level document, applying a second-level
13		transform to	the first-level do	cument so as to create a second-level
14		document.		
1	29.	(Previously l	/	A computer readable medium as defined in
2		11.		sform and applying a second-level transform
3	comprises applying sequential transforms to the document.			

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1	30. (Prev	iously Presented)	A computer readable medium as defined in	
2	Claim 28, wherein the document is stored in XML form.			
1	31. (Prev	iously Presented)	A computer readable medium as defined in	
1	`	,	•	
2			n XML form is parsed by an XML parser to	
3	create the internal re	presentation.		
1	32. (Prev	iously Presented)	A computer readable medium as defined in	
2	Claim 31, wherein the	ne internal representa	ation level of the document is transformed to a	
3	subscription-level do	cument by applying	a subscription-level transform to the internal	
4	representation.			
1	33. (Prev	iously Presented)	A computer readable medium as defined in	
2	Claim 32, wherein a	pplication of the subs	scription level transform to the internal	
3	representation so as	to create a subscription	on-level document is required.	
1	34. (Prev	iously Presented)	A computer readable medium as defined in	
2	Claim 32, wherein the	ne subscription-level	document is transformed into an organization-	
3		•	ion-level transform to the subscription-level	
4	· ·			
1	35. (Prev	iously Presented)	A computer readable medium as defined in	
2	`	•	anization-level transform to the subscription-	
3	·		ation-level document is optional.	
1	36. (Prev	iously Presented)	A computer readable medium as defined in	
2	`	,	ation of the document is decomposed to a	
3		-	se to a request for a transform-level document.	
1	37. (Prev	iously Presented)	A computer readable medium as defined in	

Claim 36, wherein transformed documents are written to a cache.

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1	38. (Previously Presented) A computer readable medium as defined in				
2	Claim 37, wherein an initial request for a transformed document causes decomposition of				
3	the internal representation into the form requested and wherein subsequent requests for a				
4	transformed document causes the transformed document to be retrieved from memory.				
1	39. (Previously Presented) A computer readable medium as defined in				
2	Claim 29, wherein the data document is generated according to a process comprising:				
3	tracking the dependencies of a transformed document; and				
4	regenerating the transformed document when any dependency related to the				
5	document changes.				
1	40. (Currently Amended) A computer readable medium as defined in Claim				
2	39, wherein the document is generated according to a process comprising:				
3	designating a cached version of the document invalid when any dependency				
4	related to the document changes, and				
5	regenerating the transformed document in response to a request form for the				
6	document that is made after the dependency change.				
1	41. (Previously Presented) A computer readable medium as defined in				
2	Claim 40, wherein the document is stored in XML form.				
1	42 (Duraniana la Durana dal) A compostante del la mardiana de discussione de la constante de				
1	42. (Previously Presented) A computer readable medium as defined in				
2	Claim 39, wherein the document stored in XML form is parsed by an XML parser to				
3	create the internal representation.				
1	43. (Currently Amended) A computer readable medium as defined in Claim				
2	42, wherein the internal representation level of the document is transformed to a				
3	subscription-level document by applying a subscription-level transform to the				
4	internal representation.				

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1	44.	(Previously Presented)	A computer readable medium as defined in	
2	Claim 43, wherein application of the subscription level transformed to the internal			
3	representatio	n so as to create a subscription	on-level document is required.	
1	45.	(Previously Presented)	A computer readable medium as defined in	
2	Claim 43, wh	nerein the subscription-level	document is transformed into an organization-	
3	level docume	ent by applying an organization	on-level transform to the subscription-level	
4	document.			
1	46.	(Previously Presented)	A computer readable medium as defined in	
2	Claim 45, wh	nerein application of the orga	nization-level transform to the subscription-	
3	level docume	ent so as to create an organiza	ation-level document is optional.	
1	47.	(Previously Presented)	A computer readable medium as defined in	
2	Claim 45, wh	nerein the internal representat	tion of the document is decomposed to a	
3	transform-lev	vel document only in respons	se to a request for a transform-level document.	
1	48.	(Previously Presented)	A computer readable medium as defined in	
2	Claim 47, wh	nerein transformed document	s are written to a cache.	
1	49.	(Canceled)		
1	50.	(Canceled)		
1	51.	(Canceled)		
1	52.	(Canceled)		
1	53.	(Previously Presented)	A method of generating customized versions	
2	of a documer	nt using a computer system, t	he method comprising:	
3	storin	g the document in a primitiv	e form:	

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4	trans	forming the doc	cument from primitive form into an internal representation of
5	the document;		
6	transforming the internal representation into at least one subscription-level		
7		document, in	to a DEFAULT organization-level document and into at least
8		one user-spe	cific organization-level document;
9	trans	forming the DE	FAULT organization-level document into at least one
10		presentation-	level document; and
11	trans	forming the use	er-specific organization-level document into at least one
12		presentation-	level document.
1	54.	(Original)	A method of generating customized versions of documents
2	as defined in	Claim 53, whe	erein the user-specific organization-level document is
3	transformed	into at least two	o presentation-level documents.
1	55.	(Original)	A method of generating customized versions of documents
2	as defined in	Claim 54, whe	erein the user-specific organization-level document is
3	transformed into an HTML presentation-level document and into a FLAT presentation-		
4	level transfo	rm.	
1	56.	(Original)	A method of generating customized versions of a document
2	as defined in	Claim 53, whe	erein:
3	(i) the	e internal repres	sentation is transformed into a first subscription-level
4		document an	d into a second subscription-level document;
5	(ii) th	ne first subscrip	tion level document is transformed into a subscription-level
6		specific DEF	FAULT organization-level document and into at least one
7		user-specific	organization-level document; and
8	(iii) t	he second organ	nization-level document is transformed into a subscription-
9		level-specific	c DEFAULT organization-level document.
1	57.	(Original)	A method of generating customized versions of a document
2	as defined in	Claim 56, whe	erein the document is stored in XML form.

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1	58. (Currently Amended) A system for the generation of customized data
2	documents, the system comprising:
3	first database means for storing raw data documents;
4	first tabular means for storing document records;
5	an interface coupling the first database means to the first tabular means;
6	a request interface to receive a document generation request, wherein the
7	document generation request indicates a particular document type;
8	second database means for storing a compilation of transforms that enable an
9	internal representation of a document to be transformed into a first-level
10	document and that enable the first-level document to be transformed into a
11	second-level document, wherein each transform is mapped to a particular
12	document type;
13	a document generator, coupled to the first and second databases and first and
14	second tabular means, and to the request interface, to generate the first
15	level document using at least one of the transforms and to generate the
16	second-level document using at least one of the transforms in response to
17	receipt of the document generation request, wherein the document type of
18	the second-level document and the transform used to generate the second-
19	level document are indicated by the document generation request;
20	second tabular means for storing transform records; and
21	an interface coupling the second database means to the second tabular means.
1	59. (Original) A system as defined in Claim 58, further comprising:
2	a cache coupled to the first tabular means and to the second tabular means.
1	60. (Currently Amended) A system as defined in Claim 58, wherein the
2	second database means stores a compilation of transforms that enable:
3	transforming an internal representation into at <u>lest least</u> one subscription-level
<i>3</i>	
	document, into a DEFAULT organization-level document and into at least
5	one user-specific organization-level document;

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6	transforming the DEFAULT organization-level document into at least one
7	presentation-level document; and
8	transforming the user-specific organization-level document into at least one
9	presentation-level document.
1	61. (Currently Amended) A system as defined in Claim 60, wherein the
2	econd database means stores a compilation of transforms that enable:
3	(i) the internal representation to be transformed into a first subscription-level
4	document and into a second subscription-level document;
5	(ii) the first subscription level document to be transformed into a subscription-
6	level specific DEFAULT organization-level document and into at least
7	one user-specific organization-level document; and
8	(iii) the second organization-level document to be transformed into a subscription
9	level-specific DEFAULT organization-level document.
1	62. (Original) A system as defined in Claim 61, further comprising:
2	cache coupled to the first tabular means and to the second tabular means.
1	63. (New) A document-generation process as defined in Claim 1 wherein
2	eceiving a first request for a second-level document that depends from the first-level
3	locument comprises:
4	receiving a first request from a client computer coupled to the computer system
5	for a second-level document that depends from the first-level document
1	64. (New) A document-generation process as defined in Claim 1 further
2	omprising:
3	tracking the dependencies of a transformed document, wherein the transformed
4	document includes at least one or the first-level document and the second
5	level document and the dependencies include the first-level document an
6	the internal representation; and
7	regenerating the transformed document when any dependency related to the
8	document changes.

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1	os. (New) A method of generating customized versions of a document using
2	a computer system as defined in Claim 8 wherein receiving a request to generate a
3	second-level document comprises:
4	receiving a request from a client computer coupled to the computer system to
5	generate a second-level document.
1	66. (New) A method of generating customized versions of a document using
2	a computer system as defined in Claim 8 further comprising:
3	tracking the dependencies of a transformed document, wherein the transformed
4	document includes at least one or the first-level document and the second-
5	level document and the dependencies include the first-level document and
6	the internal representation; and
7	regenerating the second-level document when any dependency related to the
8	transformed document changes.
1	67. (New) A method of generating customized versions of a document using
2	a computer system as defined in Claim 53 wherein receiving a request to generate a
3	second-level document comprises:
4	receiving a request from a client computer coupled to the computer system to
5	generate a second-level document.
1	68. (New) A method of generating customized versions of a document using
2	a computer system as defined in Claim 53 further comprising:
3	tracking the dependencies of the transformed documents, wherein the transformed
4	documents include the subscription-level document, the DEFAULT
5	organization-level document, the user-specific organization-level
6	document, the presentation-level documents, and the dependencies include
7	the DEFAULT organization-level document, the user-specific
8	organization-level document, and the internal representation; and
9	regenerating the second-level document when any dependency related to the
10	transformed document changes.

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1	69.	(New) A method of generating customized versions of a document using
2	a computer sy	stem as defined in Claim 53 wherein receiving a request to generate a
3	second-level d	locument comprises:
4	receivi	ing a request from a client computer coupled to the computer system to
5		generate a second-level document.
1	70.	(New) A system for the generation of customized data documents as
2	defined in Cla	im 58 further comprising:
3	a docu	ment dependency tracker and regenerator, coupled to the first and second
4		databases and first and second tabular means, to track the dependencies of
5		a transformed document, wherein the transformed document includes at
6		least one or the first-level document and the second-level document and
7		the dependencies include the first-level document and the internal
8		representation and to regenerate the transformed document when any
9		dependency related to the document changes.

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